

HS8000/HS8013 High-Security
Camera Enclosures

Installation/Operation Manual

C480M-F (10/04)

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REVISION HISTORY

<u>Manual #</u>	<u>Date</u>	<u>Comments</u>
C480M	7/89	Original manual for AH8000.
C480M	9/89	Rev. A. Revised manual style. Minor changes made to installation information and mechanical Parts List.
C480M	10/89	Rev. B. Manual revised to reflect model number change to HS8000.
C480M	1/91	Rev. C. Updated manual style, added isometric drawings. Ceiling adaptor plate installation diagram and dimension drawing added to manual.
C480M-D	9/95	Rev. D. Manual revised to include tamper switch option installation/operation information. Updated manual to new style. Revised mounting template.
C480M-E	2/96	Rev. E. Revised to include updated specification description, installation instructions, and part numbers for tamper switch update per ECO 95-357.
C480M-F	6/97	Rev. F. Revised to include new model HS8013.
	10/04	Removed agency logos and Section 2.2, Certifications. Updated warranty and return information.

1.0 GENERAL

1.1 IMPORTANT SAFEGUARDS AND WARNINGS

Prior to installation and use of this product, the following WARNINGS should be observed.

1. Installation and servicing should only be done by Qualified Service Personnel and conform to all Local codes.
2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
3. Only use replacement parts recommended by Pelco.
4. The camera and lens combination shall not exceed 20 lbs (9 kg).
5. The installation method and materials should be capable of supporting four (4) times the weight of the enclosure, pan/tilt, camera and lens combination.

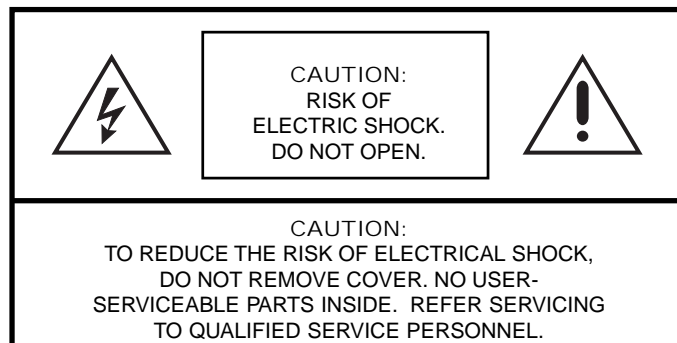
The product and or product manual may bear the following marks:



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.

2.0 DESCRIPTION

The HS8000/HS8013 is a high security camera enclosure designed for installations such as prisons, detention cells, etc., requiring maximum protection from vandalism.

Constructed from heavy gauge steel, the HS8000 will accept most CCD cameras with fixed focal length lenses ranging in size from 4 mm to 75 mm. Larger lens size combinations can be considered when using the HS8013. There is no exposed mounting hardware securing the HS8000/HS8013 to its mounting surface. Opening the enclosure can only be accomplished with a specially designed tool, eliminating the possibility of the enclosure being opened by unauthorized persons. Designed to function either as a wall enclosure or a ceiling enclosure, the HS8000/HS8013 features three possible window positions. An impact resistant, .50" (1.27 cm) thick, Lexan window is supplied with the enclosure.

2.1 OPTIONS

CM8000	Corner mount for HS8000/HS8013.
HK8000	Thermostatically controlled heater kit, 120 VAC. Provides 80 watts of heat.
HK8024	Thermostatically controlled heater kit, 24 VAC. Provides 80 watts of heat.
HS8000CA	Ceiling adapter plate for use with HS8000 only. Gives the HS8000 the appearance of being mounted flush with the ceiling.

3.0 INSTALLATION

NOTE: *Unless otherwise noted all instructions, drawing, etc. apply to both the HS8000 and HS8013 except for the ceiling adapter. The HS8000CA ceiling adapter will not work with the HS8013.*

NOTE: *The four (4) fasteners required to secure the enclosure to the mounting surface (minimum 3/8" diameter recommended) are not supplied.*

Before installing the enclosure to a wall or ceiling, make certain that the mounting surface is able to support the full load of the enclosure plus all other equipment such as camera, lens, etc.

The tilt table bracket may be removed to provide adequate clearance for mounting the enclosure.

3.1 WINDOW SELECTION

NOTE: *A speaker grill for a 4" (10.16 cm) speaker is provided with a block-off plate. When using the speaker grill, make certain that the speaker you provide does not interfere with the camera.*

After the enclosure position (wall or ceiling) has been selected, the appropriate viewing port must be selected. The enclosure is shipped standard for wall installations with the window in the uppermost position. If using any other than the standard port, follow the steps outlined below to position the viewing window. If using the standard port, refer to Section 4.2 for mounting instructions.

1. Remove the two (2) tamper-resistant screws and open the cover. A special socket is provided (fits 1/4" square drive).
2. The window, speaker plate, and filler plate are held in place with twelve (12) 1/4-20 nuts. Remove the nuts and lock washers.
3. Remove the window, speaker plate, and blank plate as needed.
4. Place the window in the desired viewing port and the filler plates (or speaker grill and filler plate) in the unused openings.
5. Secure with the 1/4-20 nuts and lock washers. Tighten all hardware.
6. Close the lid. And reinstall the 1/4-20 Tampruf fasteners.

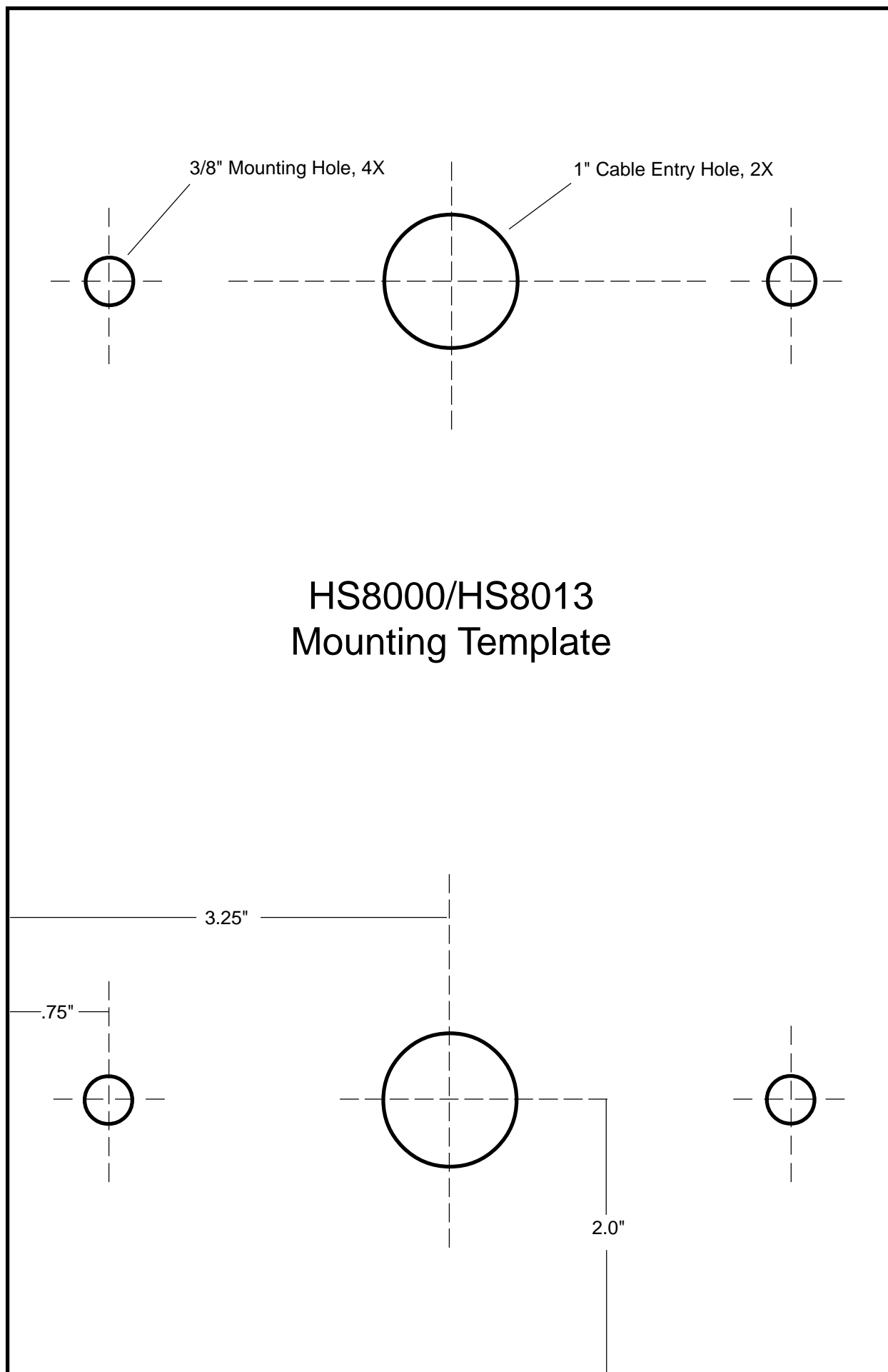


Figure 1. HS8000/HS8013 Mounting Template

3.2 WALL/CEILING MOUNTING

To mount the enclosure to a wall or ceiling, follow the steps outlined below.

1. Remove the two (2) tamper-resistant screws and open the cover. A special socket is provided (fits 1/4" square drive).
2. Using the enclosure or the template provided (see Figure 3), mark and drill holes in the mounting surface.
3. Knock out any of the two (2) cable entry holes desired on the enclosure body.
4. Attach the enclosure with the required fasteners.
5. Route all cables through the appropriate knockouts.

3.3 CM8000 CORNER MOUNT INSTALLATION

NOTE: *The four (4) fasteners (minimum 3/8" diameter recommended) required to secure the CM8000 to a wall, and the four (4) 5/16-18 fasteners required to secure the enclosure to the CM8000, are not supplied.*

Before installing the CM8000 corner mount to a wall, make certain that the mounting surface is able to support the full load of the enclosure, mount, and all other equipment such as camera, lens, etc.

To install the CM8000 and mount the enclosure, perform the following steps (see Figure 2):

1. Position the CM8000 in the desired corner and use as a template for marking the four (4) mounting holes. Mark the holes and drill.
2. Mount the CM8000 with the required fasteners (not supplied). Route the cables into the mount.
3. Open the cover.
4. Knock out any of the two (2) cable entry holes desired on the enclosure body.
5. Route all cables through the appropriate knockouts.
6. Attach the enclosure to the CM8000 with the required fasteners.

Refer to Section 3.6, Electrical Connection, and Section 3.7, Camera/Lens Installation for further details.

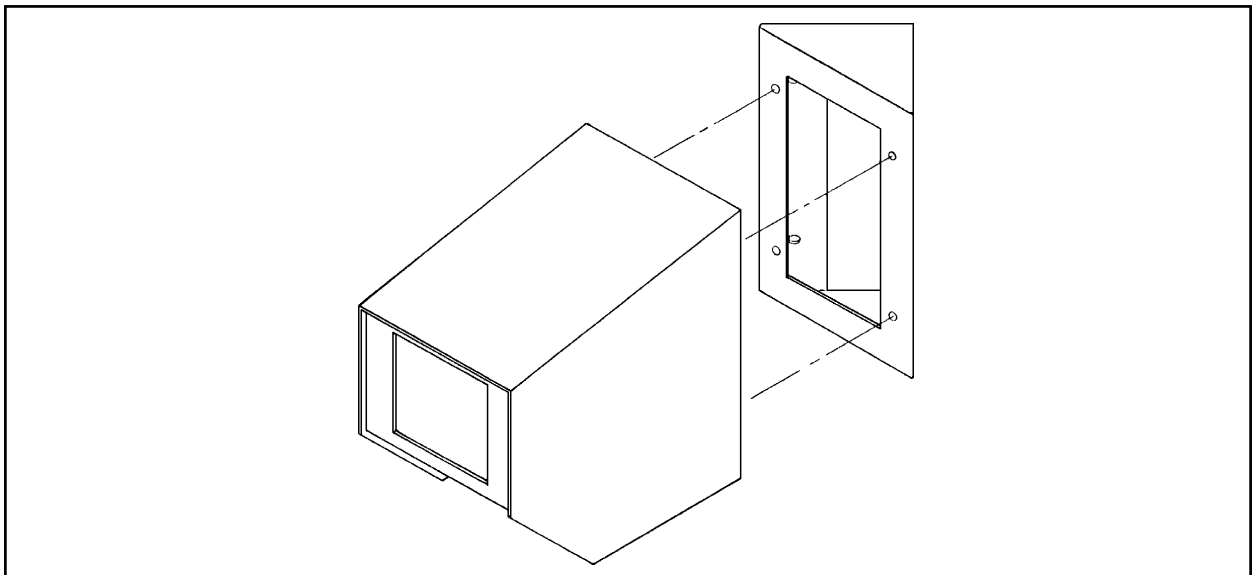


Figure 2. CM8000 Corner Mount Installation

3.4 HS8000CA CEILING ADAPTER PLATE INSTALLATION (For HS8000 only)

NOTE: *The HS8000CA ceiling adapter plate is provided with six (6) 10-32 screws, nuts and nylon washers. Before continuing with the installation of the adapter plate, make sure these six screws, nuts and washers are included. If not, please contact the factory to obtain them.*

NOTE: *The HS8000CA Ceiling Adapter is not compatible with the HS8013 enclosure*

Before installing the HS8000CA ceiling adapter plate, make sure the mounting surface is able to support the full load of the enclosure, mount, and all other equipment such as the camera, lens, etc.

To install the HS8000CA ceiling adapter plate, perform the following:

1. Place the HS8000CA ceiling adapter plate on the HS8000 enclosure as shown in Figure 3.
2. Next, drill six (6) 0.187" (3/16") holes in the enclosure at the location of each of the mounting holes on the HS8000CA ceiling adapter plate.
3. Place a nylon washer on the 10-32 screw and insert it through the HS8000CA ceiling adapter plate mounting hole and the hole in the enclosure drilled in step 2. Then install a nut on the 10-32 screw and tighten. Repeat this step for each of the six (6) mounting holes.
4. Mount the enclosure as described in Section 4.2 of this manual.

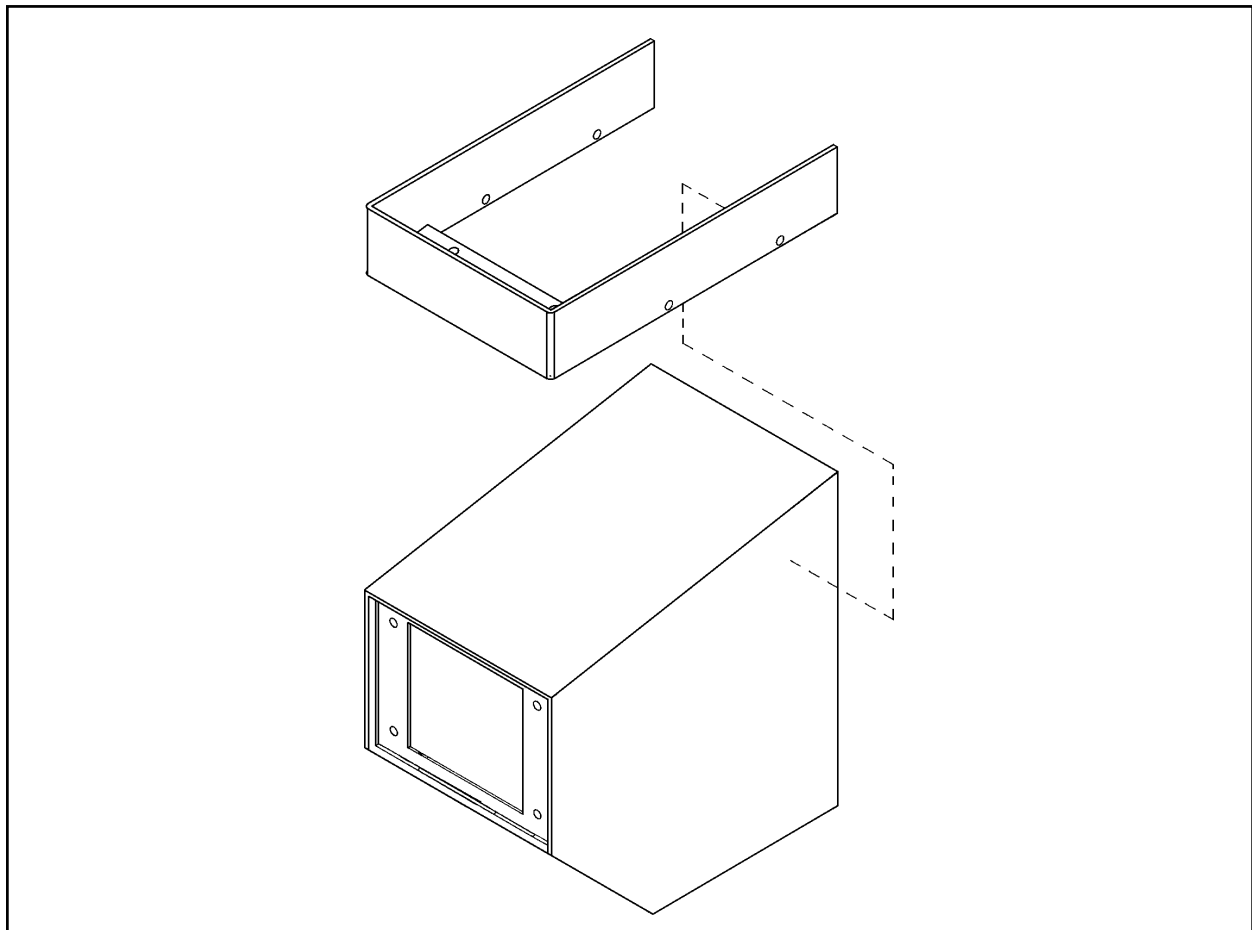


Figure 3. HS8000CA Ceiling Adapter Plate Installation

3.5 OPTIONAL HK8000/HK8024 HEATER KITS

The HK8000 and HK8024 Heater Kits require 120 VAC or 24 VAC respectively, and both provide 80 watts of heat which is thermostatically controlled to activate at 40° F and turn off at 60° F

3.5.1 Recommended Cable Size

The following cable sizes are the minimum recommended for use with heater kits.

120 VAC Operation

22 Awg to 400 ft (121.9 m)
20 Awg to 650 ft (198.12 m)
18 Awg to 1,100 ft (335.3 m)

24 VAC Operation

20 Awg to 35 ft (10.7 m)
18 Awg to 60 ft (18.3 m)
16 Awg to 80 ft (24.4 m)

3.5.2 Heater Kit Installation

To install the HK8000/HK8024, perform the following steps (refer to Figure 4):

1. Open the cover.
2. Attach the heater pads to each side of the tilt table bracket.
3. Press the PC board assembly into the four (4) holes provided in the tilt table bracket.
4. Wire according to the diagram shown in Figure 5.
5. Close and lock the cover.



CAUTION: When a single power source is used for both the camera and accessories, the camera power consumption must be taken into consideration when determining the wire gauge. Also, make certain that all electrical connections are done properly and meet electrical codes.

3.6 ELECTRICAL CONNECTION

After the cable has been routed, all wire connections should be made (i.e., video, lens, camera power, heaters). A 6-position terminal block has been provided to assist in this.

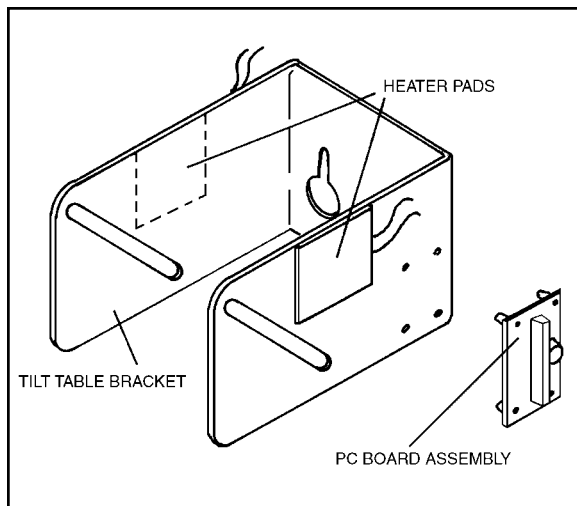


Figure 4. HK8000/HK8024 Heater Kit Installation

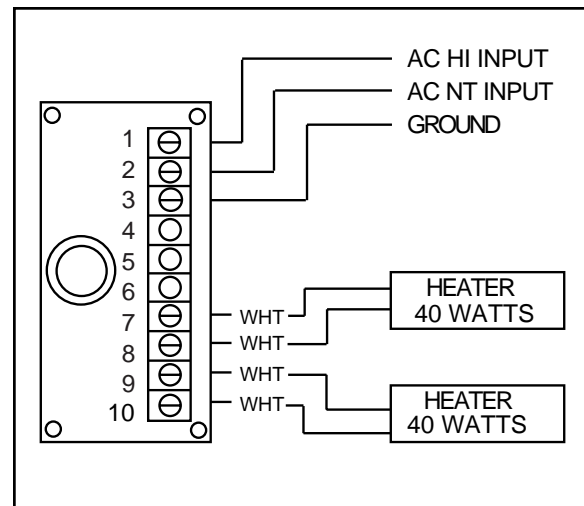


Figure 5. HK8000/HK8024 Heater Kit Wiring Diagram

3.7 CAMERA/LENS INSTALLATION

NOTE: *The tilt table bracket and tilt table may be removed from the enclosure to aid in camera/lens installation.*

Now that the proper window viewing location has been determined and the enclosure has been mounted, you are ready to mount your camera lens to the enclosure. Refer to the following steps.

1. Loosen the tilt table mounting bolts.
2. Securely attach the camera/lens to the desired location on the tilt table.
3. Make all necessary electrical connections (video, camera power, etc.).
4. Position the tilt table at the desired location and angle, and tighten the hardware.
5. Close the lid to ensure that there is no interference.
6. Provide power to the camera and check for adequate video image.

3.8 TAMPER SWITCH INSTALLATION

The HS8000 enclosures come standard from the factory with a tamper switch installed. Should it become necessary to install a replacement switch, refer to Figure 6 for the correct position of the bracket/switch and perform the following steps:

1. Remove the front cover.
2. Install the bracket/switch and secure with lockwashers and nuts.

3.8.1 Wiring the Switch

The tamper switch comes with both a "Normally Open" contact and a "Normally Closed" contact.

For a "Normally Open" circuit, use the "open" and "common" terminals; for a "Normally Closed" circuit, use the "closed" and "common" terminals.

4.0 CARE AND MAINTENANCE

Regularly scheduled maintenance will help prolong the operational life and appearance of the equipment.

Clean the viewing window regularly with a soft cloth, using a mild, nonabrasive detergent and water solution to help maintain picture clarity.

5.0 EXPLODED ASSEMBLY DRAWING

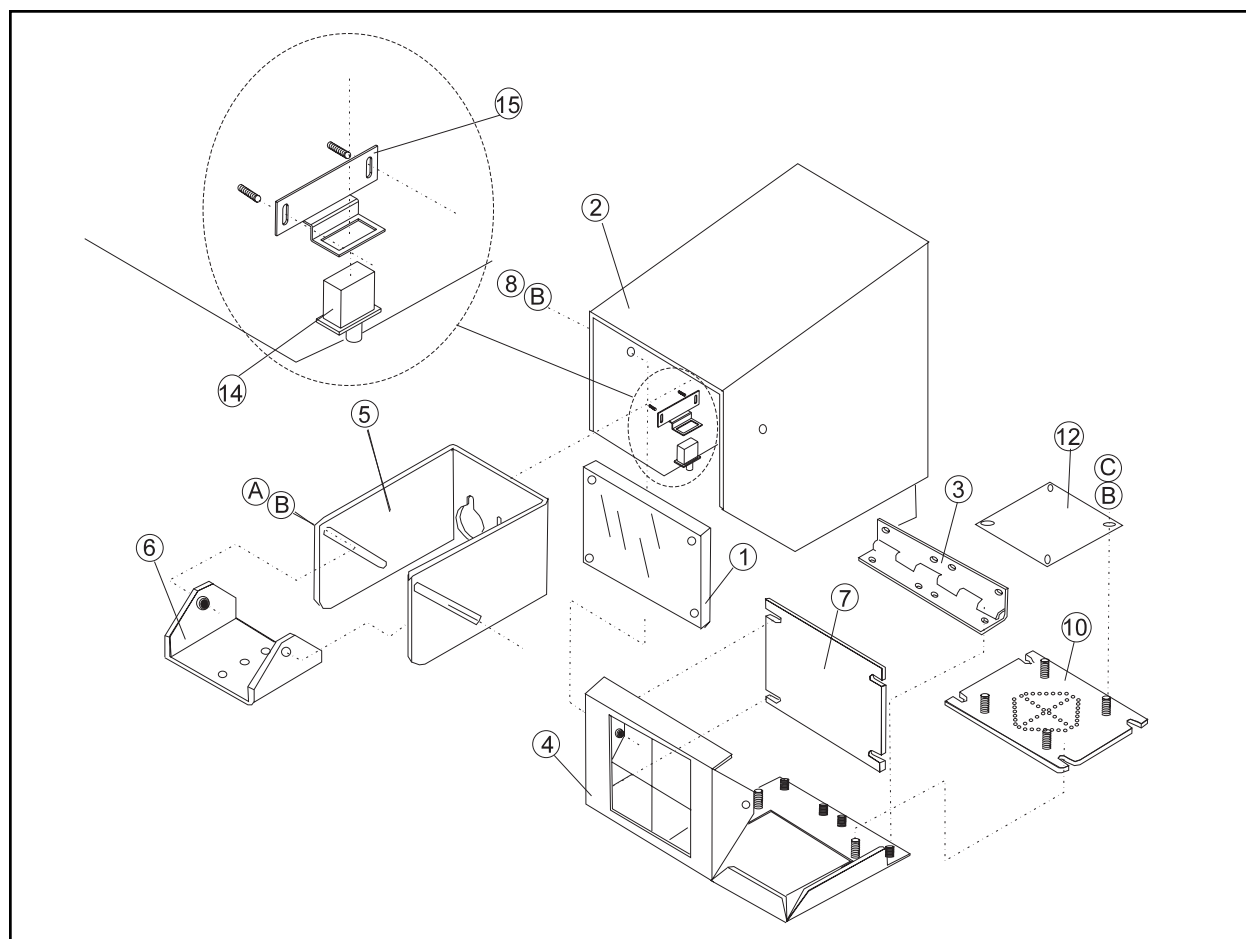


Figure 6. HS8000 Exploded Assembly Drawing

Table A. Mechanical Parts List

Item	Quantity	Description	Part Number
1	1	Window, Lexan, 5.75" x 4" x .5", MR5	AH800010001
2	1	Body (HS8000)	AH80001000WA
	1	Body (HS8013)	HS80131000WA
3	1	Hinge, steel	HS80004008COMP
4	1	Cover, body	AH80004012COMP
5	1	Bracket, tilt table mount (HS8000)	AH80004014COMP
	1	Bracket, tilt table mount (HS8013)	HS80134000COMP
6	1	Tilt table	AH80004013COMP
7	1	Plate, blank window	AH80004015COMP
8	2	Screw, 1/4-20 x 1/2", Tampruf #10	ZH1/4-20X.50SRT
9	1	Socket, Tampruf #10 (not shown)	ZTSOCKET10
10	1	Speaker plate	AH80004115COMP
11	5	NP gasket 1/8" x 1/4" x foot (not shown)	EH110042
12	1	Plate, grill, block-off	HS80004115COMP
13	1	Terminal block 6-position 601-6 Kulka (not shown)	TRB6-141
14	1	Switch, Tamper	SWI1DM401
15	1	Switch Bracket, Tamper	HS30004113COMP

6.0 SPECIFICATIONS

MECHANICAL

Window:	1/2" (1.27 cm) thick; impact and abrasion resistant Lexan
Camera Mounting:	Adjustable tilt table
Camera and Lens Size:	Accepts camera and lens combinations (including BNC connector) up to:
HS8000	4.0" H x 4.0" W x 8.0" L (10.16 cm x 10.16 cm x 20.32 cm)
HS8013	4.0" H x 4.0" W x 11.0" L (10.16 cm x 10.16 cm x 27.94 cm)
Enclosure Mounting:	Four (4) .390" (0.99 cm) diameter holes on protected rear surface
Security:	Tamper-resistant screws N.O./N.C. switch contact on cover
Tamper Switch:	Plunger type door switch with "pull to cheat" feature. N.O./N.C. contacts clearly marked on body of switch. DM electrical rating: 10A, 125V. Plunger type with .20" (0.51 cm)

ELECTRICAL

Cable Entry:	Six position terminal block. Two (2) cable knockouts holes on flat mounting surface
Tamper Switch:	1/4" (.63 cm) quick connect. N.O./N.C. clearly marked on switch body. 10A, maximum switching current 125V, maximum switching voltage.

GENERAL

Construction:	Seam welded 10 gauge .134" (0.34 cm) steel
Finish:	Polyester powder coat
Dimensions:	See Figures 7 and 8

Design and specifications are subject to change without notice.

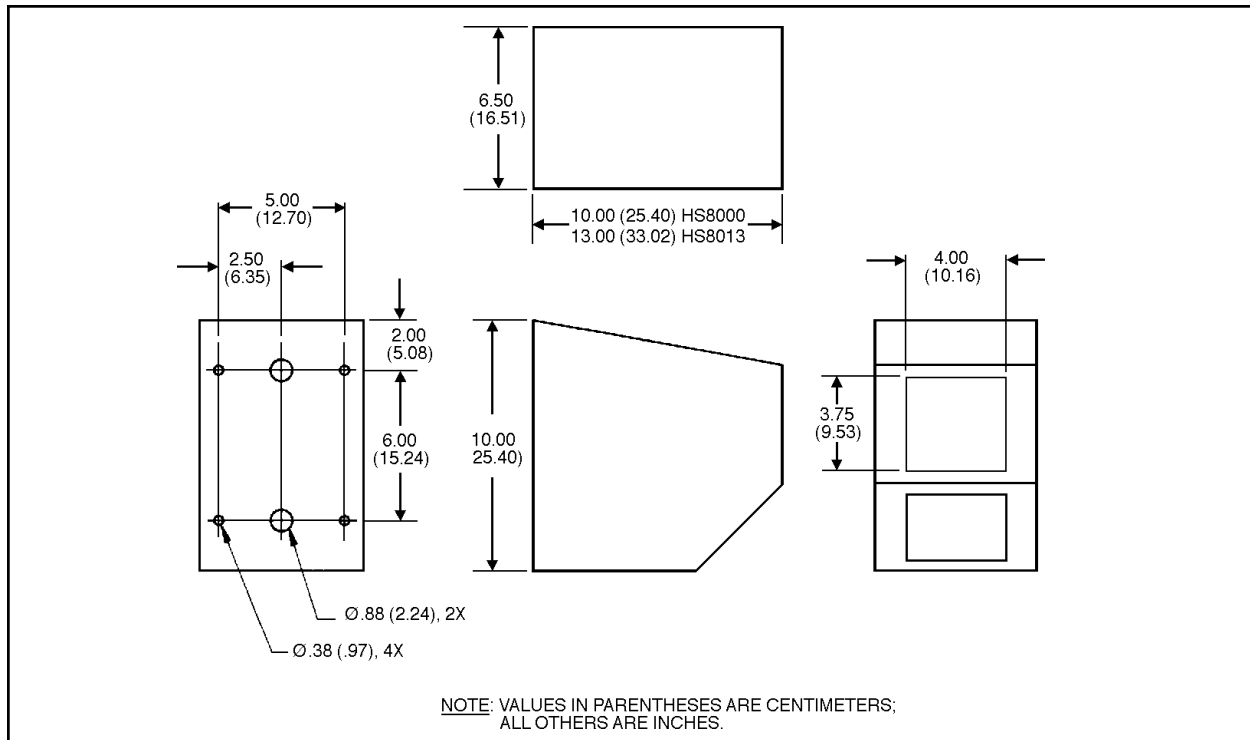


Figure 7. HS8000/HS8013 Dimension Drawing

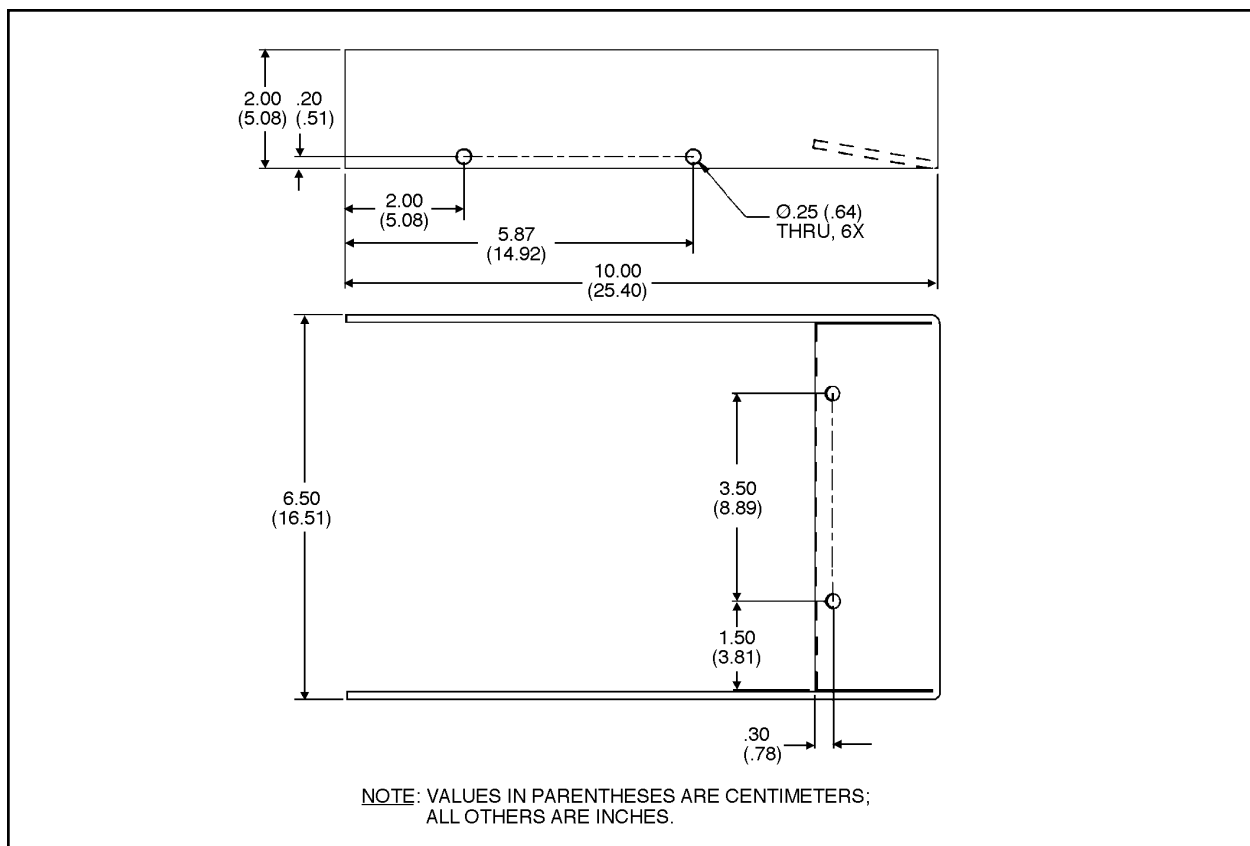


Figure 8. HS8000CA Ceiling Adapter Plate Dimension Drawing

NOTES

7.0 WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products and the following fixed camera models: CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and CC3651H-2X.
- Three years on all other fixed camera models (including Camclosure® Integrated Camera Systems) and Genex® Series (multiplexers, server, and keyboard).
- Two years on all standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM8500/CM9500/CM9700 Series Matrix, DF5 and DF8 Series Fixed Dome products.
- Two years on Spectra®, Esprit®, and PS20 Scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders and NVR300 Series network video recorders.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department
Pelco
3500 Pelco Way
Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco
3500 Pelco Way
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors
473 Eccles Avenue
South San Francisco, CA 94080 USA
Phone: 650-737-1700
Fax: 650-737-0933

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